















	Logging						
Level	Module	Description Action					
Info	Cache	Cache Thread Started					
Error	Cache	Error opening <filename> for writing on localdisk</filename>					
Error	Cache	Content Store too busy sleeping for 10 seconds					
Error	Cache	6 errors getting file <filename></filename>					
Error	Cache	Error Contacting Content Site (<host>:<port>), trying again in 30 Seconds</port></host>					
Error	Client	Invalid SID requested					
Error	Client	Service full, disconnecting					
Info	Client	Starting stream (UID: <uid>)[L: <lid>] {A: <user_agent>}(SID: <sid>)</sid></user_agent></lid></uid>					
Info	Client	Connection closed (N seconds) (UID: <uid>)[L: <lid>] {Bytes: <bytes sent="">}</bytes></lid></uid>					
Info	Client	Invalid resource request(<urlpath>)</urlpath>					
Info	Client	REQ: <url> <user-agent client="" of=""></user-agent></url>					
Info	Kick	IP:Port kicked					
Error	Main	failed to alloc (N) bytes for stream placeholder; (no memory for the station configuration)					

Logging						
Level	Module	Description Action				
Info	Main	SSCD System SERV_OSNAME SERV_VER DATE) starting; startup info				
Info	Main	Pid: <pid></pid>				
Info	Main	loaded config from <config filename=""></config>				
Info	Main	initializing (usermax portbase)				
Error	Main	GMTOffest not set in config file				
Info	Main	Listener Max Connect of (%d) Minutes, set				
Error	Main	failed to alloc (%d) bytes for clients				
Error	Main	failed to alloc (%d) bytes for admin html page; this error is unlikely				
Error	Main	error initializing winsock				
Info	Main	opening client socket				
Error	Main	error opening client socket - Fatal Error				
Info	Main	database thread startingstarted				
Info	Main	cache thread startingstarted				
Info	Main	Timer thread startingstarted				
Info	Main	Playlist thread startingstarted				
Info	Main	Source thread startingstarted				
Info	Main	Client main thread startingstarted				
Info	Main	Client stream thread <threadid> startingstarted</threadid>				

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Fig. 10

Logging						
Level	Module	Description A	ction			
Error	DB	ERROR: Contacting Database. Waiting 30 seconds to try again				
Info	DB	Connected to database: as user: with broadcaster id: and flavor id:				
Error	DB	ERROR: Getting Stream List from Data Reconnect in 30 seconds\n");	abase.			
Error	DB	ERROR: Populating initial playlists				
Error	DB	Could not find tracks for SID: <sid></sid>				
Error	DB	ERROR: Adding more tracks				
Info	Playlist	read <playlist index=""> of <total available="" entries=""></total></playlist>				
Info	Signal	SIGHUP; Flushing Log Files				
Info	Signal	SIGTERM; exiting				
Info	Signal	SIGINT; exiting				
Info	Signal	SIGKILL; exiting				
Info	Signal	SIGHUP handled. lost terminal	·			
Info	Signal	SIGWINCH; Reloaded Config File				
Error	Source	Sid: <sid> Looping</sid>				

Relevant Database Schema

```
CREATE TABLE STREAM (
      STREAM ID
                         NUMBER(9)
                                      NOT NULL,
      CHANNEL_ID
                         NUMBER(9)
                                      NOT NULL.
      STREAM_CLASS
                                            NOT NULL,
                               NUMBER(6)
      STREAM_TYPE
                                      NOT NULL,
                         NUMBER(6)
      STREAM_UID
                         VARCHAR2(64) NOT NULL,
      AUTHBLOB
                         VARCHAR2(128)
      BITRATE
                               NUMBER(9)
                                            NOT NULL,
      META_CLASS
                         NUMBER(6),
                         NUMBER(6),
      META_TYPE
      RAW_STREAM
                         NUMBER(1),
      RAW_BITRATE
                         NUMBER(9),
                               VARCHAR2(256)
      UV_URL
      CONSTRAINT PK_STREAM
      PRIMARY KEY (STREAM_ID) )
      CREATE TABLE BROADCAST_STREAM (
                         NUMBER(9) NOT NULL.
      STREAM_ID
      BROADCASTER_ID
                               NUMBER(9) NOT NULL,
      STATUS ID
                               NUMBER(6),
      CONSTRAINT PK_BRODCAST_STREAM
      PRIMARY KEY (STREAM_ID, BROADCASTER_ID) )
      CREATE TABLE BROADCAST (
      BROADCASTER_ID
                         NUMBER(6)
      BROADCASTER_DNS
                        VARCHAR2(40),
      CONSTRAINT PK_BROADCAST
      PRIMARY KEY (BROADCASTER_ID))
      CREATE TABLE STATUS(
      STATUS ID
                         NUMBER(6) NOT NULL,
      STATUS_DESC
                         VARCHAR2(60) NOT NULL,
      CONSTRAINT PK_STATUS
      PRIMARY KEY (STATUS_ID) )
      CREATE TABLE SONG_LOCATION (
      SONG_ID
                         NUMBER(9)
                                     NOT NULL,
      STREAM_ID
                         NUMBER(9)
                                     NOT NULL,
                         VARCHAR2(60) NOT NULL,
      AUDIO_LOCATION
      CONSTRAINT PK_SONG_LOCATION
  PRIMARY KEY (SONG_ID, STREAM_ID) )
 CREATE TABLE BLADES(
 BLADE_ID
                         NUMBER(6) NOT NULL,
 BLADE_DNS
                         VARCHAR2(40) NOT NULL,
                                                      250
PRIMARY KEY (BLADE_ID) )
  alter table song_play add ( metadata varchar2(2000) )
```

Fig. 12